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## Hurricane Harvey-Texas

ESF-10

### Situation Report #19



**Subject:** SITREP #19  
**To:** Agency Leads  
**Thru:** Maggie Waldon, PSC  
**From:** Unified Command  
**Date:** 9/17/2017  
**Reporting Period:** 9/17/2017

## 1. Introduction

### 1.1. Background

Hurricane Harvey made landfall at 2300 ET, August 26<sup>th</sup>, as a Category 4 storm near Rockport, Texas. Harvey stalled over southeastern TX. Due to its slow motion and a prolonged period of onshore flow, the impacted areas received more than 50 inches of precipitation which subsequently led to catastrophic flooding.

An ESF-10 Mission Assignment was signed on August 28, 2017. The US Environmental Protection Agency (EPA), Texas Commission on the Environmental Quality (TCEQ), Texas General Land Office (TGLO) and the US Coast Guard (USCG) have entered into Unified Command to begin the evaluation, clean-up and recovery of spills, releases, vessels and orphan containers.

## 2. Current Activities

### 2.1. Operations Section

On September 17, 2017, Unified Command continued operations in accordance with the Natural Disaster Operational Workgroup (NDOW) Standard Operating Procedures, NDOW forms and Response Manager. The Unified Command is supported by three operational branches: Alpha Branch in Corpus Christi, Bravo Branch in Houston and Charlie Branch in Port Arthur. Hazard Evaluation, Oil Discharge Assessment and Recovery, as well as Orphan Container Evaluation and Recovery teams continued working throughout the Alpha, Bravo and Charlie Branches. Drinking Water (DW) and Waste Water (WW) Assessment teams were active in the Bravo and Charlie Branches.

- EPA's mobile air monitoring Trace Atmospheric Gas Analyzer (TAGA) bus is being used to screen specific areas for target contaminants that are affiliated with the aftermath of Hurricane Harvey. They will continue monitoring force majeure facilities in the Houston and Beaumont areas.

#### Mission Assignment:

Request ESF-10 assistance to the State of Texas in support of assessment and response operations to actual or threatened hazardous materials and oil releases/discharges as covered under Category B (Emergency Protective Services) for Public Assistance. The assistance includes response to releases/discharges from fixed facilities, vehicles, intermodal container (to include orphaned containers) and vessels (mobile) sources to remove the threat of imminent danger or contamination to the public that could be caused by any release.

<b>Table 1: Mission Assignments</b>			
<b>Funding Sources</b>	<b>Description</b>	<b>Funding Ceiling</b>	<b>End Date</b>
MA 4332DR-TX-EPA-03	As requested by the State of Texas, provide assessment and emergency response support to the State including water/wastewater treatment plant assessments, aerial assessments	\$10,092,000	9/22/2017
USCG MA D17BA1	USCG will provide oil and hazardous materials field response which may include but not limited to the placement of vessels removed of pollutions to a pre-determined staging area; providing specialized expertise; conducting damage assessment of oil/hazmat waste impact via air and/or water; contractor oversight; evaluating hazards; and/or response, removal, or disposal of: actual and potential oil discharges, and releases of hazardous materials, pollutants and contaminations, and remove pollutants from vessels in or upon navigable waters and adjoining shoreline.	\$20,000,000	9/21/2017

#### **Liaison**

No significant information to report.

#### **Public Information**

No significant information to report.

<b>Table 2: Field Teams on 9/17/2017 – per IAP #18</b>				
<b>Teams</b>	<b>Alpha</b>	<b>Bravo</b>	<b>Charlie</b>	<b>Total</b>
Hazard Evaluation	0	1	1	<b>2</b>
Oil Discharge Assessment	0	2	0	<b>2</b>
ER/Orphan Container Recovery	1	8	3	<b>12</b>
Oil/Vessel Discharge Recovery	4	0	0	<b>4</b>
Staging Areas	1	1	1	<b>3</b>
Air Operations	0	1	0	<b>1</b>
Air Monitoring	0	1	0	<b>1</b>
Water Infrastructure Assessment – DW*	-	-	-	-
Water Infrastructure Assessment – WW*	-	-	-	-
<b>Totals</b>	<b>6</b>	<b>14</b>	<b>5</b>	<b>25</b>

\*Drinking Water (DW) and Waste Water (WW) Assessment Teams concluded operations on September 15, 2017 and will be removed from future reports.

<b>Table 3: Daily/Cumulative Summary of Hazard Evaluations/Recovery* UPDATED</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/17/2017</b>	<b>Number of Targets Remaining Open</b>	<b>9/17/2017</b>	<b>Cumulative</b>
Alpha Branch	0	5	2	101
Bravo Branch	0	8	29	378
Charlie Branch	0	13	9	117
NRC Reports	0	0	1	5
<b>Totals</b>	<b>0</b>	<b>26</b>	<b>41</b>	<b>601</b>

\*The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

**Note-** Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.

<b>Table 4: Waste Received at All Staging Pads to Date</b>						
<b>CONTAINERS</b>					<b>TOTALS</b>	
<b>Date</b>	<b>Drums [55gal]</b>	<b>Small Containers [&lt; 55gal]</b>	<b>Large Containers [&gt; 55gal]</b>	<b>Cylinders</b>	<b>Total Items Collected Today</b>	<b>Total Items Collected Project to Date</b>
9/17/2017	14	23	6	16	<b>59</b>	<b>716</b>
<b>Totals</b>	<b>351</b>	<b>236</b>	<b>32</b>	<b>97</b>		

<b>Table 5: Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)*</b>				
<b>Opened</b>			<b>Closed</b>	
<b>Status</b>	<b>9/17/2017</b>	<b>Number of Facilities/Spills Remaining Open</b>	<b>9/17/2017</b>	<b>Cumulative</b>
Alpha Branch	0	0	0	33
Bravo Branch	0	1	0	77
Charlie Branch	0	6	1	19
NRC Reports	1	14	3	110
<b>Totals</b>	<b>1</b>	<b>21</b>	<b>4</b>	<b>239</b>

\*The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

**Note-** Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

<b>Table 6: Daily/Cumulative Summary of VESSELS* UPDATED</b>				
<b>Status</b>	<b>Opened</b>		<b>Closed</b>	
	<b>9/17/2017</b>	<b>Number of Vessels Remaining Open</b>	<b>9/17/2017</b>	<b>Cumulative</b>
Alpha Branch	0	195	0	267
Bravo Branch	0	30	0	42
Charlie Branch	0	48	0	15
NRC Reports	0	3	0	10
<b>Totals</b>	<b>0</b>	<b>276</b>	<b>0</b>	<b>334</b>

\*The data from Response Manager has undergone a complete QA/QC and data was corrected as necessary. Due to this effort, numbers of targets Open and Closed has changed from previous reports. The data now shows a more accurate picture of targets remaining open and those which have been closed.

Note: Open means the target is yet to be recovered. Closed means the target was recovered/cleaned up by an RP or not found upon return to location.

### **Other Notable Activities**

#### **ALPHA BRANCH**

Three Oil/Vessel Recovery Teams continued to assess targets and one Oil/Vessel Recovery Team placed five official boat removal notification placards on vessels in Cove Harbor. USCG/TGLO teams communicated to citizens regarding the placards.

ER/Orphan Container Recovery and Staging Area operations were completed and the assigned teams were demobilized.

#### **BRAVO BRANCH**

Air Operations Team conducted an overflight covering 15-18 river miles, heading North from Port Neches Park to Interstate 10, cleared an unknown target as a 55-gallon container in Bay City, and identified two new sunken vessel targets in Dickinson Bayou.

#### **CHARLIE BRANCH**

Land Recovery Teams collected orphan container targets in Sour Lakes, Orange, Rose City, and the Beaumont area.

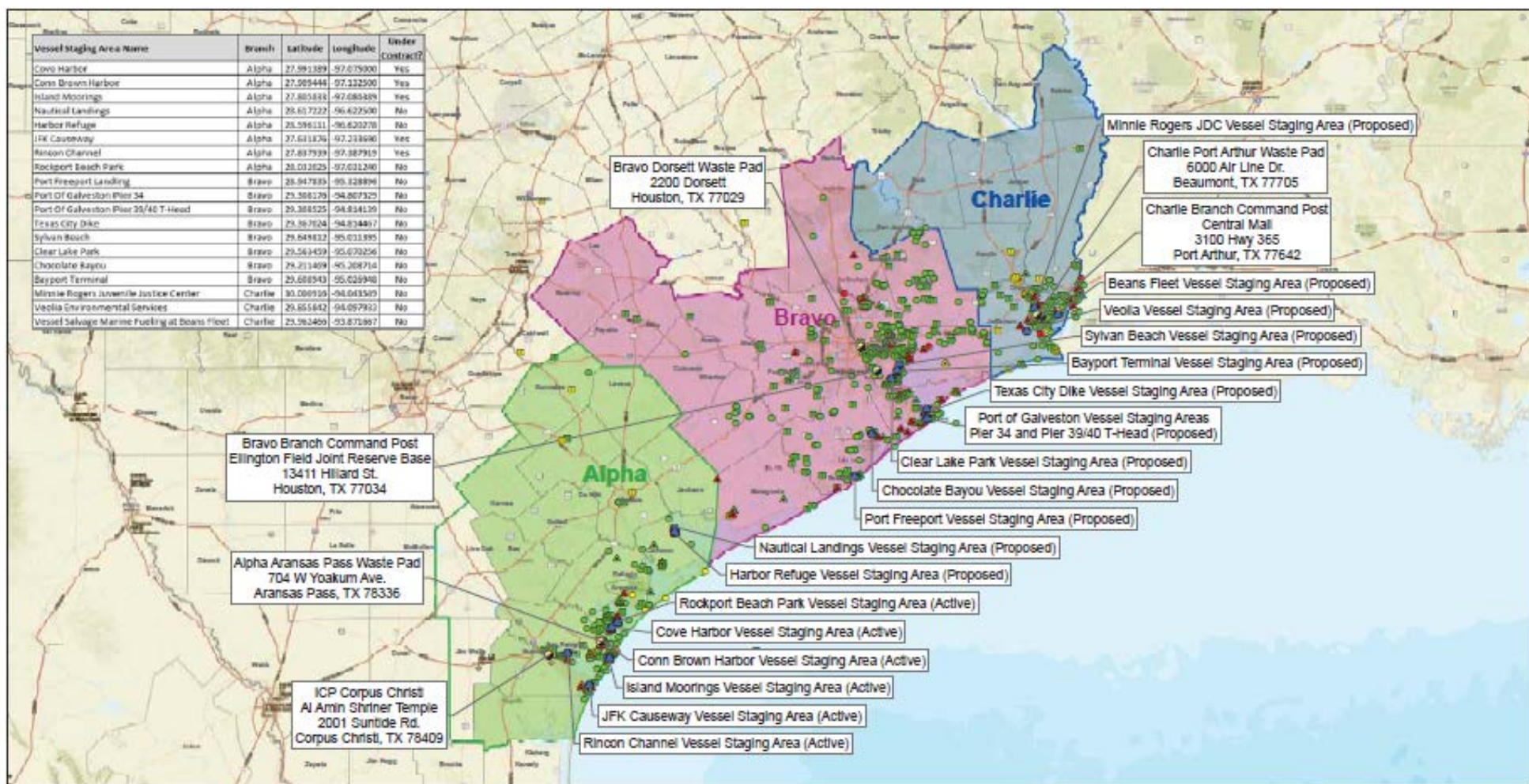
The Water Recovery Team collected orphan container targets assessed by air operation in the Neches River.

#### **Participating Agencies**

- Texas Commission on Environmental Quality
- Texas General Land Office
- Texas Parks and Wildlife
- US Environmental Protection Agency
- US Coast Guard
- National Oceanic and Atmospheric Agency

#### **Personnel On Site as of 09/17/2017**

<b>Agency</b>	<b>ICP</b>	<b>Alpha Branch</b>	<b>Bravo Branch</b>	<b>Charlie Branch</b>	<b>Totals</b>
US EPA	10	0	13	8	31
USCG	24	11	25	6	66
TCEQ	1	0	9	5	15
TGLO	4	0	0	0	4
TXSG	0	0	0	0	0
CST	0	0	0	0	0
NOAA	0	0	0	0	0
Contractors	8	2	3	23	36
US Army	0	0	7	0	7
<b>Totals</b>	<b>47</b>	<b>13</b>	<b>57</b>	<b>42</b>	<b>159</b>



## Legend

Federally Declared Counties: ■ in Alpha ■ in Bravo ■ in Charlie

● Incident Command Post (ICP) / Staging Area

● Vessel Staging Location

### Facility/Spill Assessment

- Open
- Open - Cleanup in Progress
- Closed

### Haz/Eval Items

- Open
- Open
- Closed

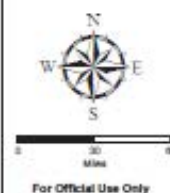
Access Denied/  
Leave in Place/  
Refer to Other Agency

### Vessels

- ▲ Open
- ▲ Open - Cleanup in Progress
- ▲ Closed

## USA EPA REGION 6 SITREP Map Alpha, Bravo, Charlie

Hurricane Harvey Response  
September 17, 2017



EPA GIS  
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